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INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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C-O-N-F-I-D-E-N-T-I-A-L

COUNTRY Hungary

REPORT

25X1

SUBJECT National Electric Cable Company,
Szeged Substation

DATE DISTR. 14 September 1956

NO. PAGES 16

REQUIREMENT

25X1

DATE OF
INFO.

REFERENCES

25X1

PLACE &
DATE ACQ.

This is UNEVALUATED Information

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25 YEAR RE-REVIEW

C-O-N-F-I-D-E-N-T-I-A-L

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1. The National Electric Cable Company (Országos Villamos Távfűző Vállalat - OVIT) was responsible for conveying electricity by high-tension lines all over Hungary. Its central offices were located in Budapest, probably on Fehérvári Road in the XIth District, and were supervised by the Ministry of Chemical Industry and Electric Power. With respect to the distribution of electricity and the restriction thereof, the OVIT also received orders and/or instructions from the State Electric-Power Distribution Center (Országos Villamos Telerosztó - OVT). The OVIT had many substations in Hungary.

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2. The OVIT 120 kilovolt substation in Szeged was located on Óthalmi Road, about 25 kilometers north of the center of the city. For location and sketches of the Szeged substation see pages 13 and 14 and Enclosure B. The substation was responsible for the supply of electricity in the Szeged area, but not for the city of Szeged itself. Actually, this substation was nothing more than a medium-sized transformer station. Electricity (120 kilovolts) arrived at the substation via the line from Kecskemét (N 46-54, E 19-41). At Szeged the 120-kilovolt electricity was transformed to 22 kilovolts and distributed by separate lines to Kistelek (N 46-28, E 19-59), Kiskundorozsma (N 46-16, E 20-04), Makó (N 46-13, E 20-29), and Hódmezővásárhely (N 46-25, E 20-20). In addition 22-kilovolt electricity was forwarded by the substation to the Szeged Power Station via a separate line (there were actually two lines to the Power Station; one of the two was used as reserve line in case of malfunction of the other). There was also a line running to the Szeged Textile Plant (Szegedi Textilkombinát). This line also had a branch leading to the Szeged Power Station for safety reasons. In case trouble occurred on the Kecskemét main line and the supply of electricity had to be discontinued, the Szeged Power Station would take over and supply the Textile Plant with electricity by means of the branch line. In addition to the above-mentioned lines,

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there were two more 22-kilovolt lines running from the substation. One was known as the "industrial line" (ipari vonal) and conveyed electricity to the industrial installations in Szeged South. The OVIT Szeged substation also fed 22-kilovolt electricity to a condenser battery (kondenzátor telep) about 100 meters from the substation. This condenser battery belonged to the Szeged Power Station and was not supervised by the OVIT substations.

3. The Szeged substation was headed by a manager. He was ultimately responsible for the smooth operation of the substation. In this capacity he supervised the work-performance of the personnel, kept records on the hours of work done daily by the employees, and computed the time spent on specific jobs. These data were forwarded to the Budapest central offices every month. The manager also distributed wages and salaries to the substation employees. On the 17th of each month employees received "advance money" and on the second day of the next month the "final distribution." The manager also acted as the channel through which orders from the Budapest central offices were forwarded, and he notified the industrial installations whenever the substation found it necessary to discontinue the supply of electricity for any reason. Personnel on duty at the substation were always kept informed as to the whereabouts of the manager in order that he might be contacted immediately in cases of emergency.
4. The deputy to the manager was the substation foreman. He assisted the manager in all official matters. In addition, the foreman directly supervised the substation's electricians. In this capacity, he also drew regular duty shifts with his assistant electrician.
5. There were two electricians at the substation. The foreman and the electricians and their assistants maintained shifts of around-the-clock duty at the substation. One electrician and his assistant had to be on duty from 0700 hours until 1900 hours and another and his assistant from 1900 hours until 0700 hours of the next day, etc. After 12 hours on duty the electricians and their assistants were relieved from duty for the next 24 hours. The responsibilities of the electricians on duty were: to make any necessary electrical connections or disconnections; to control proper operation of the equipment of the substation; to note the readings of the instrument control clocks every hour; to adjust, repair, or change the instruments or parts thereof if needed; to check the open-air transformer's instruments every hour and to notify the manager and the OVT in the event of an emergency or major damage.
6. The three assistant electricians of the substation worked with the foreman and the two electricians. The assistant electricians were not allowed to act independently, but had to follow the orders of the electrician with whom they were on duty.
7. There were three non-skilled workers employed by the substation, two male and one female. They kept the substation clean and worked in the small shop and spare-part room.
8. The substation also employed an electro-technician. It was his duty to repair any damaged or faulty instruments and signal equipment. He kept all technical drawings, blueprints, and descriptions of the substation's electrical equipment and also substituted for the electricians when they became ill or were on leave.

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9. The personnel of the substation was hired and fired by the Budapest central offices. All eleven employees of the substation were paid by the central offices and their workbooks and personal records were also kept in Budapest. Virtually no administrative work was done at the substation.
10. Wages and salaries at the Szeged Substation were as follows:

Manager	1,600 forints monthly plus 25% premium
Foreman	1,500 forints monthly plus 25% premium
Electricians	1,150 forints monthly plus 25% premium
Assistant electricians	800 to 900 forints monthly plus 25% premium
Technicians	1,000 forints monthly plus 25% premium
Non-skilled workers	650 forints monthly
11. There was no Party organization or attempt at Communist indoctrination at the substation.
12. The important electro-technical equipment at the substation consisted of:
 - a. One large transformer in the open air, 24-MVA capacity, Czechoslovak Skoda product, almost new, transformed the 120-kilovolt electricity to 22-kilovolt tension.
 - b. One regulator for the large transformer's 22-kilovolt electricity. The regulator was a Hungarian Ganz product; its range of regulation was between minus seven and plus seven stands (gradual adjustment between two stands equalled plus or minus 400 volts).
 - c. Three small transformers, .1 MVA capacity, Hungarian Ganz products. They transformed 22-kilovolt electricity to 380/220-volt tension. One of these three transformers was always kept in reserve. The 380/220-volt electricity put out by these transformers was used entirely to supply the needs of the substation itself.
 - d. Two OTKF capacity connectors, one at the incoming 120-kilovolt line and the other at the large transformer. They had 21-MVA capacity, were Hungarian Ganz products.
 - e. Five STKF sectional connectors, one at the incoming 120-kilovolt line, and the others on the internal collecting rails (gyűjtősinek). The sectional connectors were Hungarian Ganz products.
 - f. Twelve 22-kilovolt-capacity expansion capacity-connectors for the 22-kilovolt outgoing lines. They were Hungarian EKG (Elektromos Készülékek Gyára - Electrical Instrument Plant) products.
 - g. One condenser, .1MF (micro-farad) capacity, a Hungarian product. This condenser made possible the use of the 120-kilovolt line as a high-frequency telephone line between the central offices in Budapest and substations of the OVIT.

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- h. One choking coil, a Hungarian product, built into the 120-kilovolt line.
 - i. One condenser battery, 5-MVA capacity, used to adjust the "cosine Phi" of the 22-kilovolt electricity.
 - j. One air compressor, 5-ATU capacity, which operated the expansion capacity-connectors. It was a Hungarian product, probably Danuvia.
 - h. One storage-battery room, 2 x 220-volt tension, 100 A/hw capacity. Its function was to supply the signal instruments, etc. of the substation with direct current.
 - i. Two dynamos, each about 30 horsepower, Hungarian products, used to charge the storage batteries.
13. The substation also had a small workshop and a storage room. In the workshop were a grinding machine, a drilling machine, and two work-benches. In the workshop only minor repair jobs and adjustments were performed. All machines were operated by electric energy. In the storage room were kept regular equipment and spare parts.
14. Generally, the substation was very well equipped and operated smoothly. Inspecting officials from the central offices in Budapest visited the substation about once a month, usually unannounced. Although wages and salaries of the employees at the substation were not high, their job was comfortable and not particularly difficult. They were, for the most part, quite content with it. For personalities employed at the National Electric Cable Company see pages 5 through 11. 25X1

Enclosures:

- A: OVIT Power Stations, Major Transformer Stations, and Substations
- B: Szeged OVIT Transformer Station

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NAME: Bajorhegyi, László

DEGREE OR RANK: Matura of gymnasium

NATIONALITY: Hungarian

OCCUPATIONAL SPECIALTY: Electrician

25X1

POSITION: Foreman of National Electric Cable Company, Szeged Substation

25X1

NAME: Becsky, Antal

DEGREE OR RANK: None

NATIONALITY: Hungarian

OCCUPATIONAL SPECIALTY: Baker

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25X1

NAME: Csada, Antal

DEGREE OR RANK: None

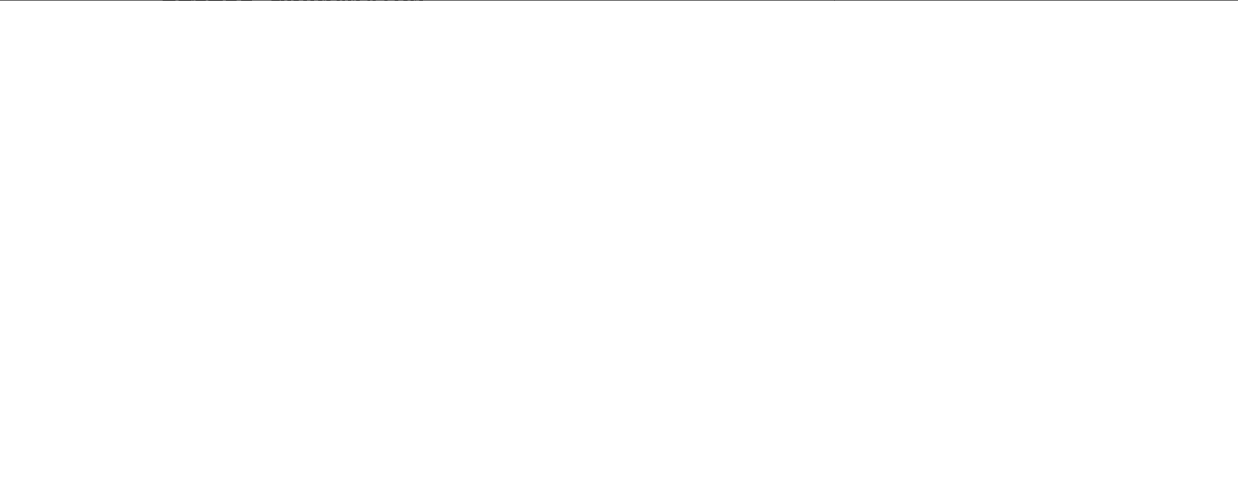
NATIONALITY: Hungarian

OCCUPATIONAL SPECIALTY: Electrician

25X1

POSITION: Assistant electrician of National Electric Cable Company,
Szeged Substation

25X1



NAME: Csáki, Mrs. Béla

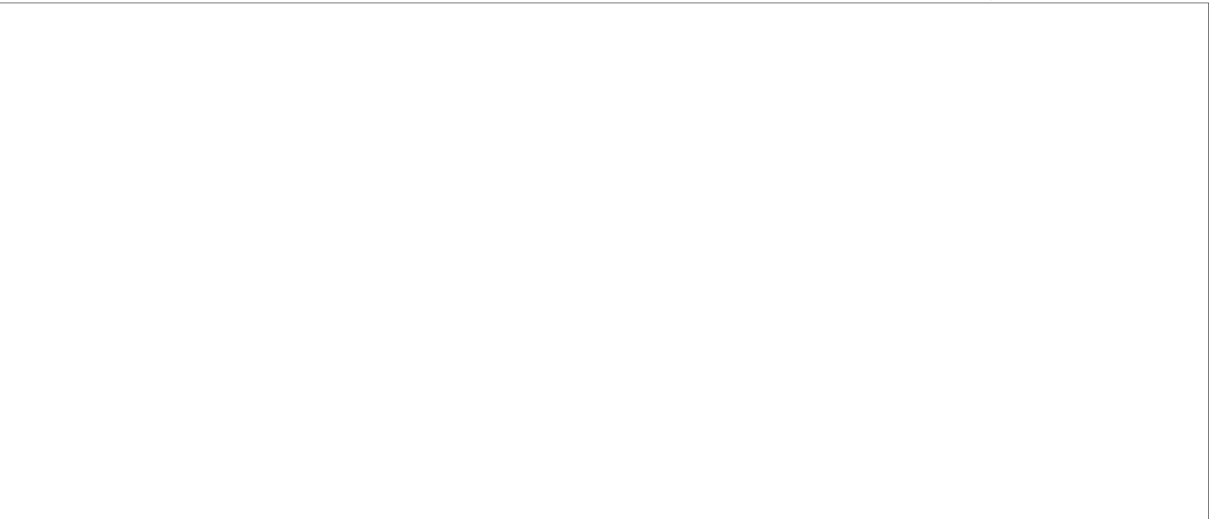
DEGREE OR RANK: None

NATIONALITY: Hungarian

OCCUPATIONAL SPECIALTY: None

25X1

POSITION: Manual laborer at National Electric Cable Company, Szeged Substation



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25X1

NAME: Csányi, István

DEGREE OR RANK: Unknown

NATIONALITY: Hungarian

OCCUPATIONAL SPECIALTY: Electrician

POSITION: Party Secretary of National Electric Cable Company, Szeged Substation

25X1

25X1

NAME: Görög, László

DEGREE OR RANK: None

NATIONALITY: Hungarian

OCCUPATIONAL SPECIALTY: Electrician

POSITION: Assistant electrician of National Electric Cable Company,
Szeged Substation

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NAME: Imre, János

DEGREE OR RANK: None

NATIONALITY: Hungarian

OCCUPATIONAL SPECIALTY: Electro-technician

25X1

POSITION: Assistant-electrician of National Electric Cable Company,
Szeged Substation

25X1

NAME: Márki, József

DEGREE OR RANK: None

25X1

NATIONALITY: Hungarian

OCCUPATIONAL SPECIALTY: None

POSITION: Manual laborer at National Electric Cable Company, Szeged Substation

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25X1

NAME: Rácz, Péter

DEGREE OR RANK: Unknown

NATIONALITY: Hungarian

OCCUPATIONAL SPECIALTY: Electrician

25X1

POSITION: Electrician at the National Electric Cable Company, Szeged Substation

25X1

NAME: Rajk, Imre

DEGREE OR RANK: Dipl. engineer

NATIONALITY: Hungarian

OCCUPATIONAL SPECIALTY: Dipl. electrical
engineer

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POSITION: One of the chief engineers of the National Electrical Cable Company.

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NAME: Réday, József DEGREE OR RANK: Matura of gymnasium
NATIONALITY: Hungarian
OCCUPATIONAL SPECIALTY: Electrician
POSITION: Electrician at the National Electric Cable Company, Szeged Substation

25X1

25X1

NAME: Regős, László DEGREE OR RANK: Unknown
NATIONALITY: Hungarian
OCCUPATIONAL SPECIALTY: Unknown
POSITION: General Director of the National Electric Cable Company.

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NAME: Terhes, György

DEGREE OR RANK: Unknown

NATIONALITY: Hungarian

OCCUPATIONAL SPECIALTY: Electrician

POSITION: Manager of National Electric Cable Company, Szeged Substation

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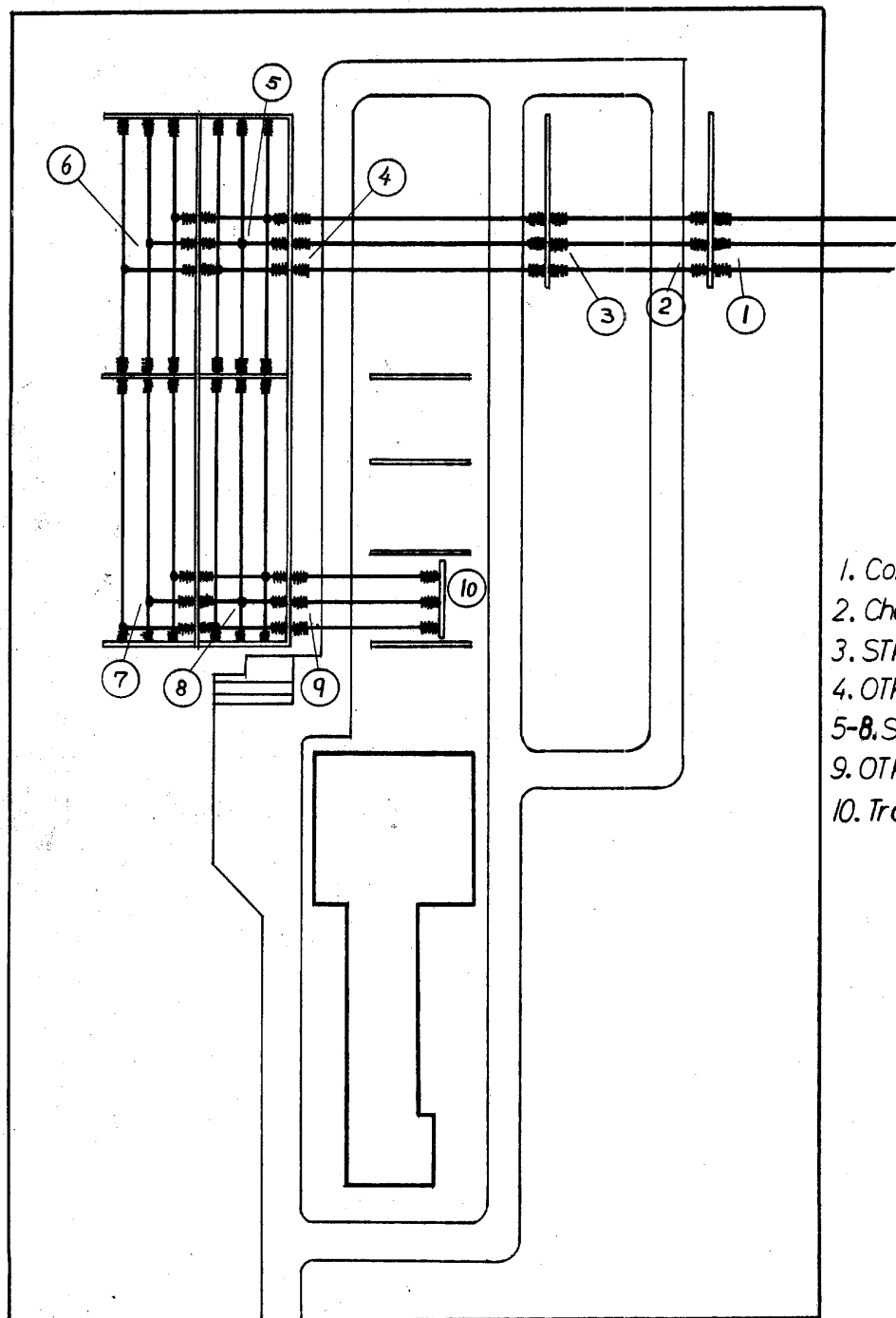
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Sketch of Open-air Electric Installations

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at the Szeged Substation



- 1. Condenser.
- 2. Choking coil.
- 3. STKF sectional conn.
- 4. OTKF capacity conn.
- 5-8. STKF sect. conn.
- 9. OTKF capacity conn.
- 10. Transformer.

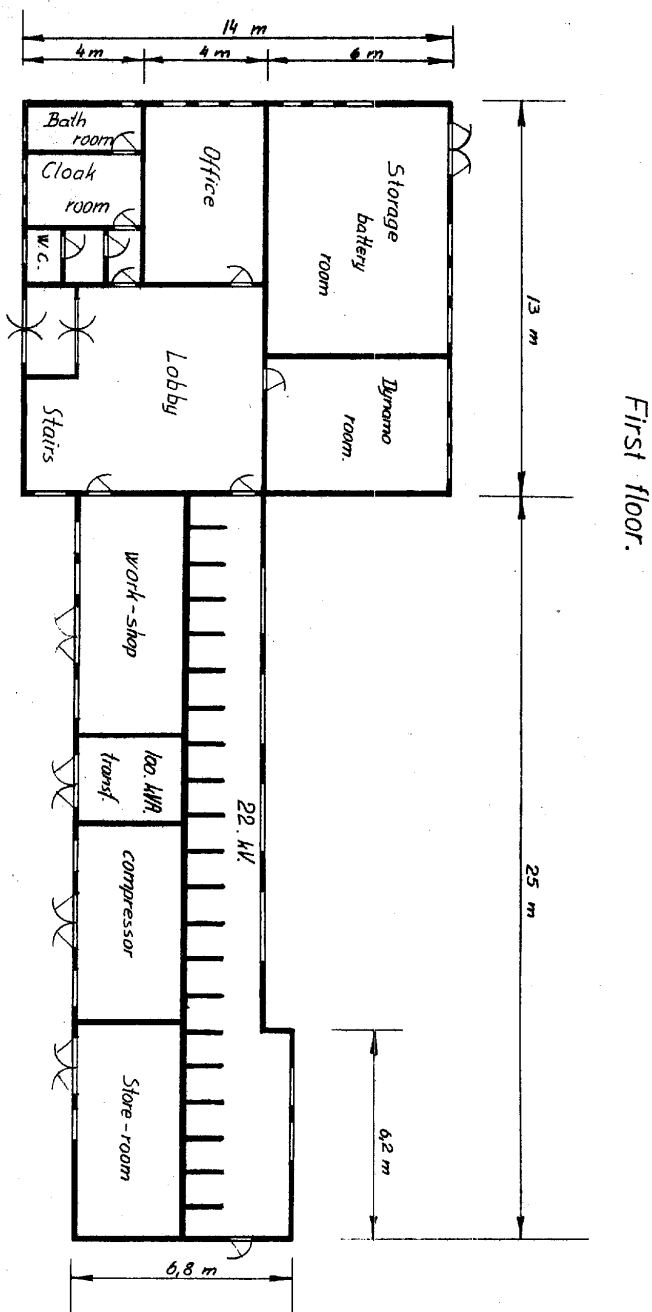
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Sketch of the National Electric Cable Company,
Szeged Substation

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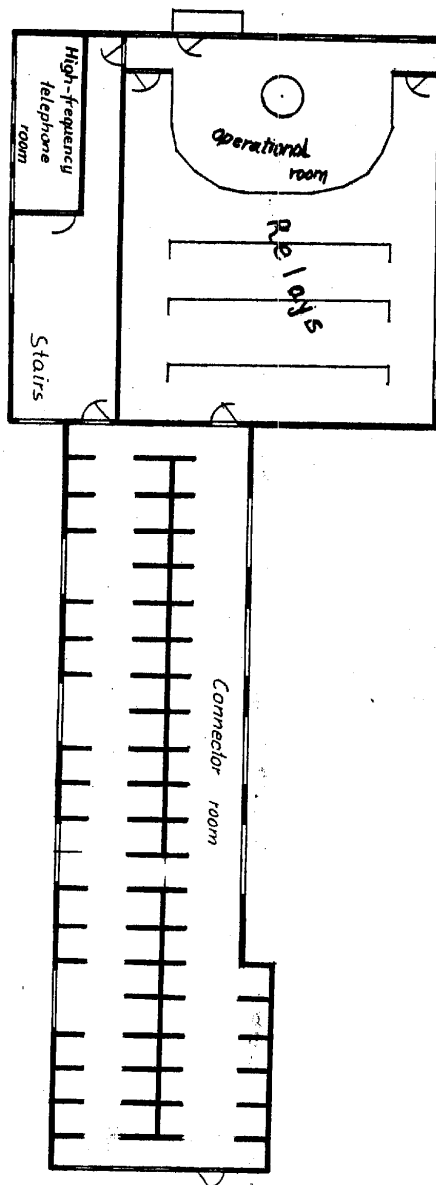
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Sketch of the National Electric Cable Company,
Szeged Substation

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Legend to Enclosure B

Sketch of the National Electric Cable Co., Szeged Substation

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1. - 2. Railroad line between Szeged-Rókus and Hódmezővásárhely.
3. 120-kilovolt high tension line from Kecskemét.
4. 15 x 6 x 35-meter brick building, tiled roof, open rafters, which housed the condenser-battery and a transformer of 22-kilovolt capacity.
5. 22-kilovolt line from the substation to the condenser-battery.
6. 22-kilovolt line to Kistelek.
7. 22-kilovolt line to the Szeged Power Station.
8. 22-kilovolt line to the Szeged Textile Plant.
9. 22-kilovolt line to Hódmezővásárhely.
10. 22-kilovolt line to Makó.
11. 22-kilovolt line to Kiskundorozsma.
12. 22-kilovolt line to communities south of Szeged.
13. 22-kilovolt line to the Szeged Power Station.
14. 22-kilovolt line to industrial installations in Szeged-south.

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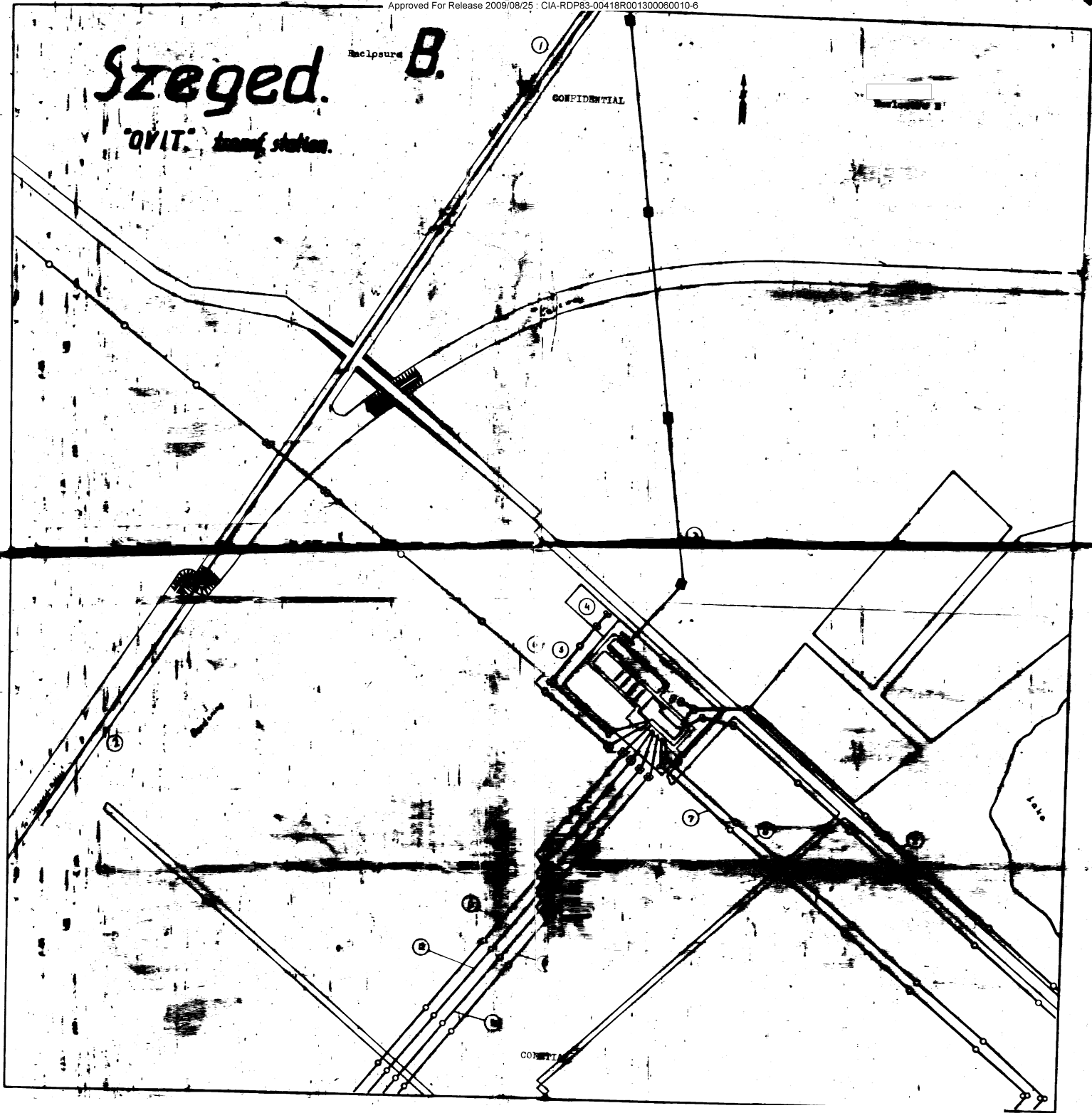
Szeged.

Recapture **B.**

"QVIT" landing station.

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